

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU070622\  
 Data File : VU049633.D  
 Acq On : 06 Jul 2022 11:10  
 Operator : SY/MD  
 Sample : VSTDIC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 07/07/2022  
 Supervised By :Mahesh Dadoda 07/07/2022

Quant Time: Jul 07 06:18:51 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U070622DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Jul 07 06:16:20 2022  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|--------|------|----------|--------|---------|----------|
| -----                        |        |      |          |        |         |          |
| Internal Standards           |        |      |          |        |         |          |
| 1) Fluorobenzene             | 6.115  | 96   | 59457    | 1.000  | ug/l    | # 0.00   |
| System Monitoring Compounds  |        |      |          |        |         |          |
| 57) 4-Bromofluorobenzene     | 10.632 | 95   | 21217    | 0.994  | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 99.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.195 | 152  | 20587    | 0.826  | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 83.000% |          |
| Target Compounds             |        |      |          |        |         |          |
|                              |        |      |          |        | Qvalue  |          |
| 2) Dichlorodifluoromethane   | 1.385  | 85   | 113987   | 5.286  | ug/l    | 100      |
| 3) Chloromethane             | 1.530  | 50   | 110551   | 4.681  | ug/l    | 99       |
| 4) Vinyl Chloride            | 1.604  | 62   | 105502   | 4.996  | ug/l    | 98       |
| 5) Bromomethane              | 1.855  | 94   | 52709    | 4.127  | ug/l    | 99       |
| 6) Chloroethane              | 1.935  | 64   | 58549    | 4.563  | ug/l    | 99       |
| 7) Trichlorofluoromethane    | 2.141  | 101  | 128261   | 4.623  | ug/l    | 100      |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.581  | 101  | 66059    | 4.179  | ug/l    | 99       |
| 9) 1,1-Dichloroethene        | 2.581  | 96   | 66308    | 4.207  | ug/l    | 93       |
| 10) Iodomethane              | 2.723  | 142  | 90842    | 7.419  | ug/l    | 99       |
| 11) Allyl Chloride           | 2.922  | 41   | 115140   | 5.135  | ug/l    | 100      |
| 12) Acrylonitrile            | 3.318  | 53   | 34875    | 8.787  | ug/l    | 99       |
| 13) Acetone                  | 2.629  | 43   | 61709    | 19.660 | ug/l    | 98       |
| 14) Carbon Disulfide         | 2.793  | 76   | 218944   | 4.365  | ug/l    | 100      |
| 15) Methylene Chloride       | 3.044  | 84   | 77297    | 3.091  | ug/l    | 98       |
| 16) trans-1,2-Dichloroethene | 3.350  | 96   | 69842    | 4.062  | ug/l    | 99       |
| 17) 1,1-Dichloroethane       | 3.867  | 63   | 144686   | 4.965  | ug/l    | 99       |
| 18) 2-Butanone               | 4.716  | 43   | 113990   | 26.368 | ug/l    | 99       |
| 19) Cyclohexane              | 5.385  | 56   | 139073m  | 6.086  | ug/l    |          |
| 20) Methylcyclohexane        | 6.761  | 83   | 137516   | 5.553  | ug/l    | 98       |
| 21) 2,2-Dichloropropane      | 4.665  | 77   | 114019   | 4.773  | ug/l    | 99       |
| 22) cis-1,2-Dichloroethene   | 4.668  | 96   | 88721    | 4.912  | ug/l    | 97       |
| 23) Diethyl Ether            | 2.379  | 59   | 55837    | 4.683  | ug/l    | 99       |
| 24) tert-Butyl Alcohol       | 3.202  | 59   | 66209    | 51.605 | ug/l    | 98       |
| 25) Methyl tert-Butyl Ether  | 3.369  | 73   | 186192   | 4.699  | ug/l    | 100      |
| 26) Bromochloromethane       | 4.977  | 128  | 37137    | 4.227  | ug/l    | 100      |
| 27) Chloroform               | 5.089  | 83   | 143648   | 4.709  | ug/l    | 97       |
| 28) 1,1,1-Trichloroethane    | 5.317  | 97   | 127816   | 4.905  | ug/l    | 100      |
| 29) 1,1-Dichloropropene      | 5.526  | 75   | 111758   | 5.068  | ug/l    | 99       |
| 30) Carbon Tetrachloride     | 5.523  | 117  | 108653   | 4.808  | ug/l    | 100      |
| 31) Isopropyl Ether          | 4.002  | 45   | 250001   | 5.980  | ug/l    | 99       |
| 32) Ethyl-t-butyl ether      | 4.510  | 59   | 237640   | 5.907  | ug/l    | 99       |
| 33) Tert-Amyl methyl ether   | 5.944  | 73   | 205571   | 5.743  | ug/l    | 99       |
| 34) Propionitrile            | 4.784  | 54   | 34362    | 24.962 | ug/l    | 96       |
| 35) Benzene                  | 5.774  | 78   | 325822   | 4.957  | ug/l    | 100      |
| 36) 1,2-Dichloroethane       | 5.797  | 62   | 91979    | 4.804  | ug/l    | 100      |
| 37) Trichloroethene          | 6.542  | 130  | 81387    | 4.356  | ug/l    | 100      |
| 38) 1,2-Dichloropropane      | 6.793  | 63   | 85923    | 5.123  | ug/l    | 98       |
| 39) Methacrylonitrile        | 4.983  | 41   | 29033    | 5.776  | ug/l    | 98       |
| 40) Methyl acrylate          | 4.854  | 55   | 43488    | 5.336  | ug/l    | 98       |
| 41) Tetrahydrofuran          | 5.067  | 42   | 32084    | 11.319 | ug/l    | 99       |
| 42) 1-Chlorobutane           | 5.459  | 56   | 159373   | 5.522  | ug/l    | 100      |
| 43) Dibromomethane           | 6.919  | 93   | 42279    | 4.493  | ug/l    | 99       |
| 44) Bromodichloromethane     | 7.108  | 83   | 102656   | 4.673  | ug/l    | 95       |

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 Operator : SY/MD  
 Sample : VSTDIC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 07/07/2022  
 Supervised By :Mahesh Dadoda 07/07/2022

Quant Time: Jul 07 06:18:51 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U070622DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Jul 07 06:16:20 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.796  | 43   | 286344   | 28.705 | ug/l   | 100      |
| 46) t-1,4-Dichloro-2-butene   | 10.835 | 75   | 38186m   | 8.405  | ug/l   |          |
| 47) Methyl methacrylate       | 6.964  | 69   | 86304    | 11.117 | ug/l   | 98       |
| 48) Ethyl methacrylate        | 8.337  | 69   | 86325    | 5.968  | ug/l   | 98       |
| 49) Toluene                   | 7.970  | 92   | 199136   | 5.026  | ug/l   | 98       |
| 50) t-1,3-Dichloropropene     | 8.211  | 75   | 99756    | 5.091  | ug/l   | 100      |
| 51) cis-1,3-Dichloropropene   | 7.607  | 75   | 117606   | 5.176  | ug/l   | 98       |
| 52) 1,1,2-Trichloroethane     | 8.401  | 97   | 59432    | 4.488  | ug/l   | 99       |
| 53) 1,3-Dichloropropane       | 8.578  | 76   | 103838   | 4.721  | ug/l   | 99       |
| 54) 2-Hexanone                | 8.687  | 43   | 196937   | 27.671 | ug/l   | 100      |
| 55) Dibromochloromethane      | 8.812  | 129  | 67141    | 4.260  | ug/l   | 98       |
| 56) 1,2-Dibromoethane         | 8.925  | 107  | 56957    | 4.507  | ug/l   | 100      |
| 58) Tetrachloroethene         | 8.552  | 164  | 67780    | 4.099  | ug/l   | 98       |
| 59) Chlorobenzene             | 9.446  | 112  | 204129   | 4.435  | ug/l   | 97       |
| 60) 1,1,1,2-Tetrachloroethane | 9.533  | 131  | 73706    | 4.510  | ug/l   | 99       |
| 61) Pentachloroethane         | 11.430 | 117  | 56298    | 4.164  | ug/l   | 99       |
| 62) Hexachloroethane          | 12.475 | 117  | 56526    | 4.533  | ug/l   | 99       |
| 63) Ethyl Benzene             | 9.571  | 91   | 379701   | 5.258  | ug/l   | 99       |
| 64) m/p-Xylenes               | 9.693  | 106  | 279954   | 9.875  | ug/l   | 99       |
| 65) o-Xylene                  | 10.099 | 106  | 139340   | 5.123  | ug/l   | 98       |
| 66) Styrene                   | 10.115 | 104  | 224373   | 4.928  | ug/l   | 99       |
| 67) Bromoform                 | 10.292 | 173  | 38460    | 3.914  | ug/l   | 100      |
| 69) Isopropylbenzene          | 10.484 | 105  | 368906   | 5.167  | ug/l   | 100      |
| 70) 1,1,2,2-Tetrachloroethane | 10.783 | 83   | 77111    | 4.533  | ug/l   | 99       |
| 71) 1,2,3-Trichloropropane    | 10.828 | 75   | 63303m   | 4.829  | ug/l   |          |
| 72) Bromobenzene              | 10.783 | 156  | 81444    | 3.921  | ug/l   | 99       |
| 73) n-propylbenzene           | 10.906 | 120  | 94815    | 4.745  | ug/l   | 99       |
| 74) 2-Chlorotoluene           | 10.986 | 126  | 82833    | 4.398  | ug/l   | 99       |
| 75) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 315527   | 5.228  | ug/l   | 98       |
| 76) 4-Chlorotoluene           | 11.099 | 126  | 83172    | 4.229  | ug/l   | 98       |
| 77) tert-Butylbenzene         | 11.420 | 119  | 303024   | 4.970  | ug/l   | 99       |
| 78) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 315498   | 5.113  | ug/l   | 99       |
| 79) sec-Butylbenzene          | 11.642 | 105  | 404938   | 5.071  | ug/l   | 99       |
| 80) Nitrobenzene              | 13.208 | 77   | 15024    | 23.030 | ug/l # | 99       |
| 81) p-Isopropyltoluene        | 11.793 | 119  | 329821   | 4.977  | ug/l   | 99       |
| 82) 1,3-Dichlorobenzene       | 11.745 | 146  | 160134   | 3.850  | ug/l   | 99       |
| 83) 1,4-Dichlorobenzene       | 11.835 | 146  | 160050   | 3.860  | ug/l   | 99       |
| 84) n-Butylbenzene            | 12.208 | 91   | 307563   | 4.834  | ug/l   | 100      |
| 85) 1,2-Dichlorobenzene       | 12.211 | 146  | 154870   | 3.941  | ug/l   | 99       |
| 86) 1,2-Dibromo-3-Chloropr... | 12.996 | 75   | 13349    | 4.862  | ug/l   | 99       |
| 87) 1,2,4-Trichlorobenzene    | 13.841 | 180  | 107677   | 3.788  | ug/l   | 100      |
| 88) Hexachlorobutadiene       | 14.021 | 225  | 54912    | 3.307  | ug/l   | 99       |
| 89) Naphthalene               | 14.086 | 128  | 219849   | 4.821  | ug/l   | 100      |
| 90) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 101721   | 3.857  | ug/l   | 100      |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

